

## SEQUENCE LISTING

<110> WEISS, BERTRAM GESERICK, CHRISTOPH HAENDLER, BERNARD <120> HUMAN PEM AS A TARGET FOR BIRTH CONTROL AND TREATMENT OF ALZHEIMER'S DISEASE <130> SCH-1810 <140> 09/867,753 <141> 2001-05-31

<150> DE 10027170.7 <151> 2000-05-31

<160> 6

<170> PatentIn Ver. 2.1

<210> 1 <211> 577 <212> DNA <213> Homo sapiens

<400> 1 tccaacatca ggcgctccag ccatggcgcg ttcgctcgtc cacgacaccg tgttctactg 60 cctgagtgta taccaggtaa aaataagccc cacacctcag ctgggggcag catcaagcgc 120 agaaggccat gttggccaag gagctccagg cctcatgggt aatatgaacc ctgagggcgg 180 tgtgaaccac gagaacggca tgaaccgcga tggcggcatg atccccgagg gcggcggtgg 240 aaaccaggag cctcggcagc agccgcagcc cccgccggag gagccggccc aggcggccat 300 ggagggtccg cagcccgaga acatgcagcc acgaactcgg cgcacgaagt tcacgctgtt 360 gcaggtggag gagctggaaa gtgttttccg acacactcaa taccctgatg tgcccacaag 420 aagggaactt gccgaaaact taggtgtgac tgaagacaaa gtgcgggttt ggtttaagaa 480 taaaagggcc agatgtaggc gacatcagag agaattaatg ctcgccaatg aactacgtgc 540 tgacccagac gactgtgtct acatcgtcgt ggactag

<210> 2 <211> 184 <212> PRT <213> Homo sapiens

<400> 2 Met Ala Arg Ser Leu Val His Asp Thr Val Phe Tyr Cys Leu Ser Val

Tyr Gln Val Lys Ile Ser Pro Thr Pro Gln Leu Gly Ala Ala Ser Ser 25

Ala Glu Gly His Val Gly Gln Gly Ala Pro Gly Leu Met Gly Asn Met

Asn Pro Glu Gly Gly Val Asn His Glu Asn Gly Met Asn Arg Asp Gly 55 50

```
Gly Met Ile Pro Glu Gly Gly Gly Asn Gln Glu Pro Arg Gln Gln
                                         75
Pro Gln Pro Pro Pro Glu Glu Pro Ala Gln Ala Ala Met Glu Gly Pro
                                     90
                 85
Gln Pro Glu Asn Met Gln Pro Arg Thr Arg Arg Thr Lys Phe Thr Leu
                                105
Leu Gln Val Glu Glu Leu Glu Ser Val Phe Arg His Thr Gln Tyr Pro
        115
                            120
Asp Val Pro Thr Arg Arg Glu Leu Ala Glu Asn Leu Gly Val Thr Glu
                        135
Asp Lys Val Arg Val Trp Phe Lys Asn Lys Arg Ala Arg Cys Arg Arg
                                                             160
                    150
145
His Gln Arg Glu Leu Met Leu Ala Asn Glu Leu Arg Ala Asp Pro Asp
                                     170
                165
Asp Cys Val Tyr Ile Val Val Asp
            180
<210> 3
<211> 10968
```

<212> DNA <213> Homo sapiens

<400> 3 caatacaaga gaatgtctgt gttaagataa ggggttgtgg agaccaaggt tcccattatg 60 cagaggaagc ctccaggtag ctggcttcag agagaataga ttgtaaatgt ttcttacttg 120 agttgattct ctcctggatc aagaaaaagg cctgcacaag aaaggggatt ctcttgagaa 180 tgtacatttc cccccacaag agacagcttt gcaggactgt ttcaaaaatat gacaaagaaa 240 cacatagggt aaaatacttt tgatttcttt caagccttgc tatctgtcat gtgatgctat 300 actagagtta ggctggaaat tggtgtctta ttgccacaga gtatgttagt cttaagttct 360 gttctaacgt taagactggt cagctgtaca cgaattccaa aagggagtag ggaataataa 420 ggcatgtctg acgcctactt cctgtcatga cctgaataag tttttcaggt taactttgga 480 tggtttacaa tagcatgaac aaagcagagg tctgacagct tcgttccagt gagtggatat 600 tctggaacat tgctcagggt accatcttct tactcttctt tgagcagcac taaatgaaaa 660 ggtccccttt caccttgtaa tcagcaggaa gtgggattct ctcgaagatg ttgaagatga 720 caaaataaac ttaaaggatt gttcatctgc ttttgagcta gggaaggtat aacaatatgc 780 tttctgggcc ggggggggg gagaaaatgg agaagagcct ctttttgggc ttaatgaaat 840 ttttgcttgt gtttcttttg aagcagcagg atctttgggg cagaatagct cctattcccc 900 tgtgtccccc acaaaaaggg agggcagtga acagaatttg gagcatagtg gagtggatca 960 acgttcagct gccaccttcc cataaatcct atgagtagcc acctaggaag tttctcttta 1020 gagtccagaa tttggactga actagtcagc ataactggaa ctcagcttta tctgggaata 1080 cactgttgtc tcaccaggaa tctgcttcac cccttcttgc acatatttgt ggtccctaaa 1140 ggggcaaggt ggtgaggatg gcataatggc aggggtaggg agggggagtg gagaaggatg 1200 tatgggtcag tgcaaactca caatgacgct tggtaaactt ctgtgatgtg cagggcctat 1260 tgttgatggc aagccaggga tgtcatttca tgaaagatct ccttgtcatt ttgtttaaat 1320 ggctttcttt ttttttttt ttgatatgga gtctcactct gttgcccagg ctgaagtgca 1380 gtggtgcgat cttggctcac tgcaacctct gcctcctggg ttcaggcctc ccgcatagct 1440 gggattactg gtgcctgcca ccacatccag ctaatttttt tgtatttttg atagagacag 1500 ggtttcacca tcttggctag gctggtcttg aactcctgac ctcctgatcc acccgcctca 1560 gcctcctaaa gtgttaagat tacaggtgtg agccactgca cctggcctta aatggctttt 1620

					caaatatatt	
					cctgagcggc	
					ctcctgaaga	
					gtcagcacgt	
agttcattgg	cgagcattaa	ttctctctga	tgtcgcctac	atctggccct	tttattctta	1920
aaccaaacct	acaatcagag	ggaaaagggg	attggtttag	tatattgaac	agttaatgtc	1980
gtaatagaaa	aacacaggat	gcaactttat	atgctattga	gattttaaac	tgcatcagga	2040
aaagctattt	cctcattgct	aaaatacctt	aggaaagtta	acaacatagc	ccgtggccct	2100
					ttattacttt	
					tatttattta	
					ggtgcaatca	
					ccctcccaag	
					tgtagagaca	
					tcttcccacc	
					ccaattttaa	
					ttgttccagg	
					gcatctgaca	
					gtttcatctt	
					ttttcagggg	
					cactggaatt	
					agagaggcct	
					gctcgaccca	
					agaggcatac	
					accttcctgg	
					ggactggagg	
					agatctgaat	
					tggttaacat	
					caattaaaaa	
					acctagttaa	
					gtaagctgca	
					aggatttgca	
					tgggagcttt	
					ggttaactgg	
					tgcattacat	
					gctgtatagt	
					ctcatattct	
					caactcacca	
					gatcccaacc	
					tgccattagg	
					actaccagat	
					taataataag	
					tatgtatggt	
		_	_		gttaacactg	
					aaaatgaggg	
					ccaaaaagaa	
					catttagtag	
					ttttgaccat	
					attactcatt	
	_		_		accttcctca	
					aagtatttta	
					taaaaacaaa	
					agcttaacta	
					catcccaata	
					ttagtacact	
_					aggtaagact	
					tagaaggagt	
_			-		tatgtgtatt	
atacattatc	atacatatat	gtattatata	ttacacatat	atgtataata	tataatacac	5100

Affa ....